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PHOTOGRAPHIC INTERPRETATION REPORT

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

# PART TIME AIR WARNING RADAR SYSTEM, USSR

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## PART TIME AIR WARNING RADAR SYSTEM, USSR

# ABSTRACT

- 1. Twenty-seven facilities which are a part of the PART TIME Air Warning Radar System in the USSR have been identified on KEYHOLE photography. Twenty of these facilities have ribbed radomes 23 meters (75 feet) in diameter and PART TIME radars, which are probably inside the radomes. Six of the remaining facilities have fixed data receiving antennas collocated with TALL KING radars. The seventh facility has the fixed data receiving antennas but no collocated TALL KING.
- 2. This report includes a location map and tabular listing of the 27 facilities and annotated photographs of selected facilities.

### INTRODUCTION

- 3. Twenty-seven facilities which are a part of the PART TIME Air Warning Radar System in the USSR have been identified on KEY-HOLE photography since 1964 (Figure 1 and Table 1). Twenty-one of these facilities are deployed along the northern and southern borders of the USSR, and the other six are deployed in the interior.
- 4. A typical PART TIME radar facility consists of a ribbed radome 23 meters (75 feet) in diameter, a PART TIME radar, which is probably inside the radome, and three horizontal fuel storage tanks (Figure 2).  $^{\!1}$  The radar has never been observed on KEYHOLE photography. The associated radome is unusual in that it has six circular, unidentified objects on top. Other radomes 23 meters (75 feet) in diameter observed in the USSR on KEYHOLE photography do not have these objects.
- 5. The radar data acquired by the PART TIME radar is transmitted to a remote recipient which is probably collocated with TALL KING radars. The PART TIME radars deployed in the north transmit their data to cut parabolic data receiving antennas 10 meters (33 feet) in diameter, nicknamed RAG TIME, which are collocated with TALL KING radars (Figure 3). The PART TIME radars at Kapustin Yar and the two on the USSR-Mongolia border probably transmit their data to antennas 18 meters (60 feet) in diameter (Figure 4).
- 6. When the air warning radar facilities and the azimuths of the data receiving antennas are plotted on a map, a series of triangles is produced (Figure 1). Two PART TIME radar facilities and one TALL KING radar facility appear to form one triangle. This pattern suggests that in those areas of the interior and far eastern USSR where only one or two facilities could be identified, a second and/or third facility may exist which would complete the triangular pattern. However, the lack of current KEYHOLE photography covering these areas precludes identification of these facilities.
- 7. There are indications that the system may be undergoing some type of modification. Between May and October 1971 the RAG TIME antennas at Shoyna were removed, and in October 1971 the radome at Malaya Nes had been partially dismantled.

### BASIC DESCRIPTION

8. The 27 facilities listed in Table 1 have been identified as components of the PART TIME Air Warning Radar System.

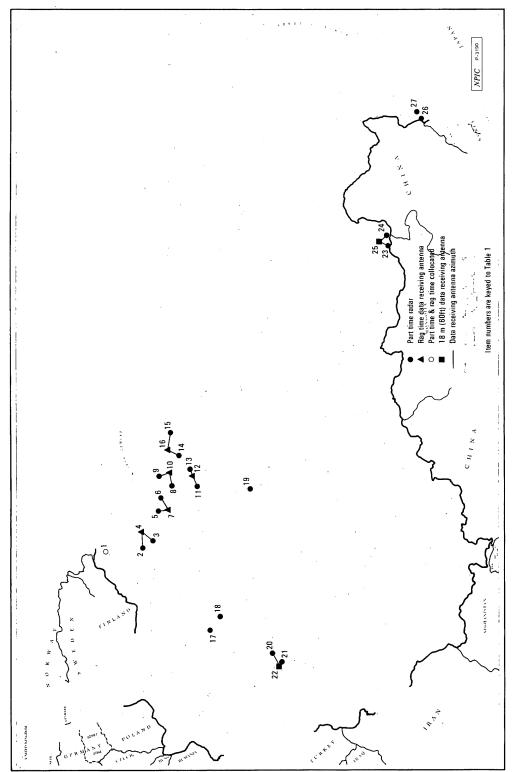
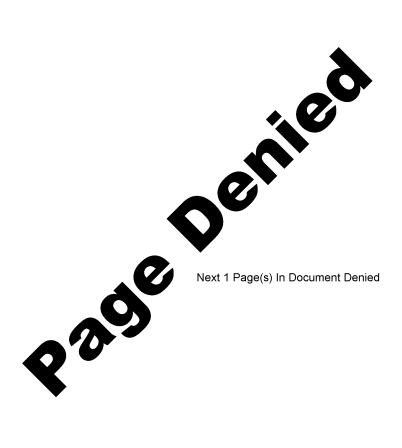


FIGURE 1. DEPLOYMENT OF THE PART TIME AIR WARNING RADAR SYSTEM, USSR

	Item	Name	Coordinates
	1	Murmansk Tracking Facility	684930N 0330730E
	2	Kiya Site B AW Radar Facility	670615N 0410710E
	3	Malaya Nes Tracking Facility	663600N 0444500E
	4	Shoyna Troposcatter Station	675100N 0440930E
	5	Verkhniy Shar Tracking Facility	681900N 0505200E
	6	Khodovankha Tracking Facility	685630N 0534400E
	7	Naryan-Mar Troposcetter Facility	673900N 0530900E
	8	Amderma Site A	684755N 0575810E
	9	Amderma Site B  Amderma Troposcatter Facility	702640N 0590230E 694450N 0614350E
	11	Abez Tracking Facility	663224N 0614431E
10P	12	Khalmer-Yu Afld AW Radar  Vorkuta Troposcatter A	675829N 0644341E 673200N 0640830E
- 3 - TOP SECRET RUFF	,,	RADCOM Station	0,02001,000000
	14	Kharasavehy Site A AW Radar Facility	694442N 0665114E
	15	Tambey Tracking Facility	712900N 0714600E
	16	Mys Kharasavey Troposcatter Station	710620N 0664515E
	17	Vladimir AW Radar Facility TALL KING	561415N 0401430E
	18	Pravdinsk AW Radar Facility	563300N 0432200E
	19	Urmannyy AW Radar Facility PART TIME	613800N 0674900E
	20	Kamyshin AW Radar Facility	500310N 0451600E
	21	Kapustin Yar/Vladimirovka Missile Test Center (PART TIME Radar Facility)	484200N 0460000E
	22	Kapustin Yar/Vladimirovka Missile Test Center (PART TIME Data Reception Facility)	484200N 0460000E
	23	Buylesan AW Radar Facility PART TIME	501500N 1145300E
	24	Dauriya AW Radar Facility PART TIME	495500N 1165000E
	25	Khadabulak Data Receiving Facility PART TIME	504430N 1161330E
	26	Slavyanka AW Radar Facility PART TIME	425050N 1312250E
	27	Ostrov Askold Prob AW	424630N 1322030E



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MAPS OR CHARTS	
ACIC. US Air Target Charts, Series 200, scale 1:200,000	
DOCUMENTS	
1. NPIC. Newly Identified Soviet Probable Air Warning Radar System. Abr 70 (TOP SECRET RUFF	25X1 25X1 25X1
RELATED DOCUMENTS	
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